# **Safety Data Sheet**

Issue Date: 18-Feb-2015 Revision Date: 05-Feb-2019 Version 1

# 1. IDENTIFICATION

**Product identifier** 

Product Name PRESIDE CL

Other means of identification

**SDS #** VLS-070

**Document** AKA for this product: Primo CL

Recommended use of the chemical and restrictions on use

Recommended Use Fertilizer.

Details of the supplier of the safety data sheet

**Supplier Address** 

Verdesian Life Sciences, U.S., LLC. 1001 Winstead Drive, Suite 480 Cary, NC 27513

Emergency telephone number

Company Phone Number Business Phone: (800) 868-6446

Fax: (919) 535-3652

**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

#### 2. HAZARDS IDENTIFICATION

Appearance Yellow to brown liquid Physical state Liquid Odor Mild

#### Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Liquid inoculant products containing live culture of nitrogen fixing rhizobium bacteria. The product may also contain a separate water-based additive of Azospirillum.

# 4. FIRST AID MEASURES

#### **Description of first aid measures**

**General Advice** Provide this SDS to medical personnel for treatment.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

eye irritation persists: Get medical advice/attention.

Skin Contact Wash off immediately with plenty of water. Take off contaminated clothing. Wash

contaminated clothing before reuse.

Inhalation Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center

if individual's condition declines or if symptoms persist.

Ingestion Do NOT induce vomiting. Rinse mouth. Get medical attention if you feel unwell.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** May cause skin and eye irritation.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

#### **Specific Hazards Arising from the Chemical**

Product is not flammable.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions**Use personal protective equipment as required.

Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

# Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling Wash thoroughly after handling. Use personal protection recommended in Section 8. Avoid

contact with skin, eyes or clothing.

# Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials Some seed-applied chemicals, including fungicides, may be harmful to the bacteria in this

product. See product label for further information on the use of fungicides or other

chemicals in conjunction with seed treatment.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines No exposure limits noted for ingredient(s). The following information is given as general

guidance

#### **Appropriate engineering controls**

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear eye/face protection.

**Skin and Body Protection** Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid

Appearance Yellow to brown liquid Odor Mild

ColorYellow to brownOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 6.5-7.4

Melting point / freezing point -4 °C / 25 °F

Boiling point / boiling range 102 °C / 216 °F

Flash point Not determined

Flash point
Evaporation Rate
Flammability (Solid, Gas)
Not determined
Not determined
Not determined

Flammability Limit in Air

Upper flammability or explosive Not determined

limits

Lower flammability or explosive Not determined

limits

Vapor Pressure
Vapor Density
Relative Density
Not determined
1.0 g/cc

Insoluble in water **Water Solubility** Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition temperature** Not determined **Decomposition temperature** Not determined Kinematic viscosity Not determined **Dvnamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical stability**

Stable under recommended storage conditions.

## Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Incompatible Materials.

#### **Incompatible materials**

Some seed-applied chemicals, including fungicides, may be harmful to the bacteria in this product. See product label for further information on the use of fungicides or other chemicals in conjunction with seed treatment.

#### Hazardous decomposition products

Oxides of carbon.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information

**Eye Contact** Direct contact with eyes may cause temporary irritation.

**Skin Contact** May cause temporary irritation on skin contact.

**Inhalation** Not an expected route of exposure.

**Ingestion** May cause discomfort if swallowed.

#### **Component Information**

Not available

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** Not a skin sensitizer.

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

# **Numerical measures of toxicity**

 Oral LD50
 28,826.00 mg/kg

 Dermal LD50
 242,073.00 mg/kg

 Oral LD50
 > 5000 mg/kg

 Dermal LD50
 > 2000 mg/kg

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

This product contains nonpathogenic, biodegradable Rhizobacterial strain(s) that occur(s) naturally in soil.

#### Persistence/Degradability

Not determined.

# **Bioaccumulation**

There is no data for this product.

#### **Mobility**

Not determined

# Other Adverse Effects

Not determined

# 13. DISPOSAL CONSIDERATIONS

# **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

# 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

**DOT** Not regulated

<u>IATA</u> Not regulated

IMDG Not regulated

# 15. REGULATORY INFORMATION

# International Inventories

Not determined

#### US Federal Regulations

# **SARA 313**

Not determined

#### **US State Regulations**

# U.S. State Right-to-Know Regulations

Not determined

# **16. OTHER INFORMATION**

**Health Hazards** NFPA **Flammability** Instability **Special Hazards** Not determined Not determined Not determined Not determined **Health Hazards Flammability** Physical hazards **Personal Protection HMIS** 0 Not determined

Issue Date:18-Feb-2015Revision Date:05-Feb-2019Revision Note:New product

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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